INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/005064

CLASSIFICATION OF SUBJECT MATTER

Int.Cl.7H01L27/12, 21/02, 21/336, 29/786

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) Int.Cl. HO1L27/12, 21/02, 21/336, 29/786

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2005
Registered utility model specifications of Japan 1996-2005
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

			Relevant to claim No.
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim 140.
Y	US 2003/0170946 A1 (SEIKO 2003.09.11, whole document 2003-204047 A & EP 1326289	t, fig.1-18 & JP	1-35
Y	JP 2000-150379 A (Kabushiki Kenkyusho) 2000.05.30, whol (Family: None)		1-35
Y	US 2003/0032210 A1 (Se Laboratory Co., Ltd.) 2003.02 fig.1-23 & KR 2003007208 A 564471 A & JP 2003-174153 A	& CN 1397984 A & TW	14,18,20,21, 25,27,28,32,
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Specia	er documents are listed in the continuation of Box C.	See patent family annex. "T" later document published after the priority date and not in conflict with the priority date.	e international filing date or
* Specia "A" docum consid "E" earlier nations "L" docum	ent defining the general state of the art which is not cred to be of particular relevance application or patent but published on or after the interatfilming date application may throw doubts on priority claim(s) or which	"T" later document published after the priority date and not in conflict we understand the principle or theory understand the document of particular relevance; be considered novel or cannot inventive step when the document	derlying the invention the claimed invention cannot be considered to involve an is taken alone
* Specia "A" docum consid "E" earlier nation "L" docum is cite specia "O" docum eans "P" docum	el categories of cited documents: ent defining the general state of the art which is not ered to be of particular relevance application or patent but published on or after the inter- al filing date nent which may throw doubts on priority claim(s) or which d to establish the publication date of another citation or other l reason (as specified) nent referring to an oral disclosure, use, exhibition or other them to published prior to the international filing date but later	"T" later document published after the priority date and not in conflict we understand the principle or theory understand the principle or cannot linventive step when the document "Y" document of particular relevance; be considered to involve an inventive combined with one or more of	the claimed invention cannot be considered to involve an is taken alone the claimed invention cannot ive step when the document is ther such documents, such rson skilled in the art
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* Specia "A" docum consid "E" earlier nation "L" docum is cites specia "O" docum means "P" docum than th	determine the general state of the art which is not cered to be of particular relevance application or patent but published on or after the interal filing date nent which may throw doubts on priority claim(s) or which do establish the publication date of another citation or other areason (as specified) nent referring to an oral disclosure, use, exhibition or other nent published prior to the international filing date but later actual completion of the international search 30.05.2005 mailing address of the ISA/JP	"T" later document published after the priority date and not in conflict we understand the principle or theory understand the considered novel or cannot inventive step when the document "Y" document of particular relevance; be considered to involve an invent combined with one or more of combination being obvious to a per document member of the same pate. Date of mailing of the international stands. 20 Authorized officer	the claimed invention cannot be considered to involve an is taken alone the claimed invention cannot be claimed invention cannot ive step when the document is other such documents, such roon skilled in the art in tamily earch report
Specia "A" docum consid "E" earlier nation "L" docum is cite specia "O" docum means "P" docum than th Date of the	dicategories of cited documents: ent defining the general state of the art which is not ered to be of particular relevance application or patent but published on or after the inter- al filing date tent which may throw doubts on priority claim(s) or which do to establish the publication date of another citation or other learn referring to an oral disclosure, use, exhibition or other tent published prior to the international filing date but later the priority date claimed actual completion of the international search 30.05.2005	"T" later document published after the priority date and not in conflict we understand the principle or theory understand the considered novel or cannot inventive step when the document "Y" document of particular relevance; be considered to involve an invention combined with one or more combination being obvious to a per document member of the same pate. Date of mailing of the international same pate.	the claimed invention cannot the claimed invention cannot is taken alone the claimed invention cannot ive step when the document in their such documents, such step when the art in family the carch report

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
	WO 00/55915 A1 (ALIEN TECHNOLOGY CORPORATION) 2000.09.21, whole document, fig.1-19 & EP 1173888 A1 & US 2002/0061392 A1 & US 2004/0018347 A1 & AU 200028643 A & JP 2003-501676 A	5,12,19,26, 3		
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